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27

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<220>  
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<212> DNA
<213> Homo sapiens
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<221> SITE
<222> (1010)
<223> n equals a,t,g, or c
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<212> DNA
<213> Homo sapiens
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 <211> 2412  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

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atgcttttga	960
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<220>  
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<210> 42



<211> 1037  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (12)  
 <223> n equals a,t,g, or c

<400> 42

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 <211> 2102  
 <212> DNA  
 <213> Homo sapiens

<400> 43

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 <212> DNA  
 <213> Homo sapiens

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 <211> 390  
 <212> DNA  
 <213> Homo sapiens

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attaatgaga	acccagacct	cagacctgga	tcctgagcag	cagagcagtg	gatgcccagg	360
gctctcgctt	aaaaaaaaaa	aaaaaaaaaa				390

<210> 46  
 <211> 1546  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
ggcagcagtt	cagccctgat	ggcagttacg	tggcggcagg	ctctgctgag	ggctctctgt	60
atatctggag	tgtgctcaca	gggaaagtgg	aaaagggtct	ttcaaagcag	cacagctcat	120
ccatcaatgc	ggtggcggtg	tcgccccctg	gctcgcacgt	tgctcagtg	gacaaaggat	180
gcaaagctgt	gctgtgggca	cagtactgac	ggggctctca	gggctgggag	gacccagtg	240
ccctcctcag	aagaagcaca	tgggctcctg	cagccctgtc	ctggcaggtg	atgtgctggg	300
tatagcatgg	acctcccaga	gaagctcaag	ctatgtggca	ctgtagcttt	gccgtgaatg	360

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<210> 47
<211> 1643
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (59)
<223> n equals a,t,g, or c
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[illegible]









His Gly Pro Ala Ala Val Pro Glu Ala Ser Ser Thr Val Tyr Asn Gly  
 595 600 605  
 Ser Leu Leu Leu Ile Val Gln Asp Gly Val Gly Gly Leu Tyr Gln Cys  
 610 615 620  
 Trp Ala Thr Glu Asn Gly Phe Ser Tyr Pro Val Ile Ser Tyr Trp Val  
 625 630 635 640  
 Asp Ser Gln Asp Gln Thr Leu Ala Leu Asp Pro Glu Leu Ala Gly Ile  
 645 650 655  
 Pro Arg Glu His Val Lys Val Pro Leu Thr Arg Val Ser Gly Gly Ala  
 660 665 670  
 Ala Leu Ala Ala Gln Gln Ser Tyr Trp Pro His Phe Val Thr Val Thr  
 675 680 685  
 Val Leu Phe Ala Leu Val Leu Ser Gly Ala Leu Ile Ile Leu Val Ala  
 690 695 700  
 Ser Pro Leu Arg Ala Leu Arg Ala Arg Gly Lys Val Gln Gly Cys Glu  
 705 710 715 720  
 Thr Leu Arg Pro Gly Glu Lys Ala Pro Leu Ser Arg Glu Gln His Leu  
 725 730 735  
 Gln Ser Pro Lys Glu Cys Arg Thr Ser Ala Ser Asp Val Asp Ala Asp  
 740 745 750  
 Asn Asn Cys Leu Gly Thr Glu Val Ala  
 755 760

<210> 52  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 52  
 Met Gly Arg Pro Arg Pro Arg Ala Ala Lys Thr Trp Met Phe Leu Leu  
 1 5 10 15  
 Leu Leu Gly Gly Ala Trp Ala Ala Cys Gly Ser Leu Asp Leu Leu Thr  
 20 25 30  
 Lys Leu Tyr Ala Glu Asn Leu Pro Cys Val His Leu Asn Pro Gln Trp  
 35 40 45  
 Pro Ser Gln Pro Ser His Cys Pro Arg Gly Trp Arg Ser Asn Pro Leu  
 50 55 60  
 Pro Pro Ala Ala Gly His Ser Arg Ala Gln Glu Asp Lys Val Leu Gly  
 65 70 75 80  
 Gly His Glu Cys Gln Pro His Ser Gln Pro Trp Gln Ala Ala Leu Phe  
 85 90 95  
 Gln Gly Gln Gln Leu Leu Cys Gly Gly Val Leu Val Gly Gly Asn Trp  
 100 105 110  
 Val Leu Thr Ala Ala His Cys Lys Lys Pro Lys Tyr Thr Val Arg Leu  
 115 120 125  
 Gly Asp His Ser Leu Gln Asn Lys Asp Gly Pro Glu Gln Glu Ile Pro  
 130 135 140

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Val Val Gln Ser Ile Pro His Pro Cys Tyr Asn Ser Ser Asp Val Glu  
 145 150 155 160  
 Asp His Asn His Asp Leu Met Leu Leu Gln Leu Arg Asp Gln Ala Ser  
 165 170 175  
 Leu Gly Ser Lys Val Lys Pro Ile Ser Leu Ala Asp His Cys Thr Gln  
 180 185 190  
 Pro Gly Gln Lys Cys Thr Val Ser Gly Trp Gly Thr Val Thr Ser Pro  
 195 200 205  
 Arg Glu Asn Phe Pro Asp Thr Leu Asn Cys Ala Glu Val Lys Ile Phe  
 210 215 220  
 Pro Gln Lys Lys Cys Glu Asp Ala Tyr Pro Gly Gln Ile Thr Asp Gly  
 225 230 235 240  
 Met Val Cys Ala Gly Ser Ser Lys Gly Ala Asp Thr Cys Gln Gly Asp  
 245 250 255  
 Ser Gly Gly Pro Leu Val Cys Asp Gly Ala Leu Gln Gly Ile Thr Ser  
 260 265 270  
 Trp Gly Ser Asp Pro Cys Gly Arg Ser Asp Lys Pro Gly Val Tyr Thr  
 275 280 285  
 Asn Ile Cys Arg Tyr Leu Asp Trp Ile Lys Lys Ile Ile Gly Ser Lys  
 290 295 300

Gly  
 305

<210> 53  
 <211> 379  
 <212> PRT  
 <213> Homo sapiens

<400> 53

Met Asn Leu Cys Val Ile Leu Leu Ile Leu Val Phe Met Val Pro Phe  
 1 5 10 15  
 Tyr Ile Gly Tyr Phe Ile Val Ser Asn Ile Arg Leu Leu His Lys Gln  
 20 25 30  
 Arg Leu Leu Phe Ser Cys Leu Leu Trp Leu Thr Phe Met Tyr Phe Phe  
 35 40 45  
 Trp Lys Leu Gly Asp Pro Phe Pro Ile Leu Ser Pro Lys His Gly Ile  
 50 55 60  
 Leu Ser Ile Glu Gln Leu Ile Ser Arg Val Gly Val Ile Gly Val Thr  
 65 70 75 80  
 Leu Met Ala Leu Leu Ser Gly Phe Gly Ala Val Asn Cys Pro Tyr Thr  
 85 90 95  
 Tyr Met Ser Tyr Phe Leu Arg Asn Val Thr Asp Thr Asp Ile Leu Ala  
 100 105 110  
 Leu Glu Arg Arg Leu Leu Gln Thr Met Asp Met Ile Ile Ser Lys Lys  
 115 120 125  
 Lys Arg Met Ala Met Ala Arg Arg Thr Met Phe Gln Lys Gly Glu Val

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130		135		140											
His 145	Asn	Lys	Pro	Ser	Gly 150	Phe	Trp	Gly	Met	Ile 155	Lys	Ser	Val	Thr	Thr 160
Ser	Ala	Ser	Gly	Ser 165	Glu	Asn	Leu	Thr	Leu 170	Ile	Gln	Gln	Glu	Val	Asp 175
Ala	Leu	Glu	Glu 180	Leu	Ser	Arg	Gln	Leu 185	Phe	Leu	Glu	Thr	Ala 190	Asp	Leu
Tyr	Ala	Thr 195	Lys	Glu	Arg	Ile	Glu 200	Tyr	Ser	Lys	Thr	Phe 205	Lys	Gly	Lys
Tyr	Phe 210	Asn	Phe	Leu	Gly	Tyr 215	Phe	Phe	Ser	Ile	Tyr 220	Cys	Val	Trp	Lys
Ile 225	Phe	Met	Ala	Thr	Ile 230	Asn	Ile	Val	Phe	Asp 235	Arg	Val	Gly	Lys	Thr 240
Asp	Pro	Val	Thr	Arg 245	Gly	Ile	Glu	Ile	Thr 250	Val	Asn	Tyr	Leu	Gly 255	Ile
Gln	Phe	Asp	Val 260	Lys	Phe	Trp	Ser	Gln 265	His	Ile	Ser	Phe	Ile 270	Leu	Val
Gly	Ile	Ile 275	Ile	Val	Thr	Ser	Ile 280	Arg	Gly	Leu	Leu	Ile 285	Thr	Leu	Thr
Lys	Phe 290	Phe	Tyr	Ala	Ile	Ser 295	Ser	Ser	Lys	Ser	Ser 300	Asn	Val	Ile	Val
Leu 305	Leu	Leu	Ala	Gln	Ile 310	Met	Gly	Met	Tyr	Phe 315	Val	Ser	Ser	Val	Leu 320
Leu	Ile	Arg	Met	Ser 325	Met	Pro	Leu	Glu	Tyr 330	Arg	Thr	Ile	Ile	Thr 335	Glu
Val	Leu	Gly	Glu 340	Leu	Gln	Phe	Asn	Phe 345	Tyr	His	Arg	Trp	Phe 350	Asp	Val
Ile	Phe	Leu 355	Val	Ser	Ala	Leu	Ser 360	Ser	Ile	Leu	Phe	Leu 365	Tyr	Leu	Ala
His 370	Lys	Gln	Ala	Pro	Glu	Lys 375	Gln	Met	Ala	Pro					

&lt;210&gt; 54

&lt;211&gt; 228

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (207)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (217)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (218)

00661453-09300

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 54

Met	Asn	Ile	Leu	Cys	Thr	Cys	Leu	Leu	Cys	Val	Leu	Gln	His	Gln	Ser
1				5					10					15	
Ala	Ser	Ala	Ser	Tyr	Ala	Leu	Gly	Asn	Thr	Pro	Arg	His	Arg	Gln	Ser
			20					25					30		
Leu	Pro	Arg	Pro	Ser	Gly	Gln	Thr	Ser	Val	Thr	Thr	Ser	Cys	Cys	Asn
		35					40					45			
Leu	Leu	Thr	Glu	Leu	Arg	His	Pro	Ser	Ser	Ala	Asp	Phe	Gly	His	Gln
	50					55					60				
Ser	Ser	Arg	Phe	Ser	Leu	Leu	Glu	Leu	Arg	His	Pro	Ser	Ala	Ala	Ala
65					70					75					80
Cys	Gly	His	Gln	Asn	Ser	Arg	Phe	Ser	Leu	Leu	Glu	Leu	Arg	Arg	Pro
				85					90					95	
Ser	Ser	Asp	Ala	Phe	Gly	His	Gln	Ser	Ser	Arg	Leu	Ser	Leu	Leu	Asp
			100					105					110		
Leu	Arg	His	Thr	Ser	Ala	Ala	Ala	Phe	Gly	His	Gln	Asn	Ser	Arg	Phe
		115					120					125			
Ser	Leu	Val	Glu	Leu	Arg	His	Pro	Ser	Ser	Asp	Ala	Phe	Gly	His	Gln
	130					135					140				
Asn	Ser	Arg	Phe	Cys	Phe	Leu	Asp	Leu	Arg	His	Pro	Ser	Ala	Ala	Ala
145					150					155					160
Phe	Gly	His	Gln	Asn	Ser	Arg	Phe	Ser	His	Val	Glu	Pro	Arg	His	Pro
				165					170					175	
Ser	Ser	Ala	Ala	Phe	Gly	His	Gln	Asn	Ser	Arg	Phe	Ser	Gly	Leu	Cys
			180					185					190		
Thr	Leu	Gly	Cys	Val	Ala	Ala	Thr	Pro	Ala	Pro	Gly	Phe	Gln	Xaa	Phe
		195					200					205			
Gly	Leu	Arg	Leu	Gln	Ala	Thr	Pro	Xaa	Xaa	Ser	Leu	Val	Leu	Arg	Leu
	210					215					220				
Leu	Asp	Leu	Asp												
225															

<210> 55

<211> 552

<212> PRT

<213> Homo sapiens

<400> 55

Met	Leu	Lys	Ala	Ser	Cys	Leu	Pro	Leu	Gly	Phe	Ile	Val	Phe	Leu	Pro
1				5					10					15	
Ala	Val	Leu	Leu	Leu	Val	Ala	Pro	Pro	Leu	Pro	Ala	Ala	Asp	Ala	Ala
			20					25					30		
His	Glu	Phe	Thr	Val	Tyr	Arg	Met	Gln	Gln	Tyr	Asp	Leu	Gln	Gly	Gln
		35					40					45			
Pro	Tyr	Gly	Thr	Arg	Asn	Ala	Val	Leu	Asn	Thr	Glu	Ala	Arg	Thr	Met
	50					55					60				

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His Arg Ala Pro Thr Leu Val Trp Arg Pro Gly Gly Glu Leu Trp Ile  
           35                          40                          45  
 Glu Pro Met Gly Thr Ala Arg Lys Arg Ser Glu Asp Trp Tyr Gly Ser  
           50                          55                          60  
 Ala Val Pro Leu Leu Thr Asp Arg Ala Pro Glu Pro Pro Thr Gln Val  
           65                          70                          75                          80  
 Gly Thr Leu Glu Ala Arg Ala Thr Ala Pro Pro Ala Pro Ser Ala Pro  
                           85                          90                          95  
 Asn Ser Ala Pro Ser Asn Leu Gly Pro Gln Thr Val Leu Glu Val Pro  
                           100                          105                          110  
 Ala Arg Ser Thr Phe Trp Gly Pro Gln Pro Trp Glu Gly Arg Pro Pro  
                           115                          120                          125  
 Ala Thr Gly Leu Val Ser Trp Ala Glu Pro Glu Gln Arg Pro Glu Ala  
           130                          135                          140  
 Ser Val Gln Phe Gly Ser Pro Gln Ala Arg Xaa Gln Arg Pro Gly Ser  
   145                          150                          155                          160  
 Pro Asp Pro Glu Trp Gly Leu Gln Pro Arg Val Thr Leu Glu Gln Ile  
                           165                          170                          175  
 Ser Ala Phe Xaa Lys Arg Glu Gly Arg Thr Ser Val Gly Phe  
                           180                          185                          190

<210> 58  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 58  
 Met Ala Val Ser Val Ile Phe Cys Gln Lys Leu Lys Thr Gly Ser Val  
   1                          5                          10                          15  
 Lys Leu Trp Ile Gln Met Leu Leu Trp Leu Gln Phe Ser Val Ala Cys  
           20                          25                          30  
 Leu Arg Leu Arg Lys Gly Gly Lys Trp Ser Pro Trp Gly Leu Met Leu  
           35                          40                          45  
 Lys Glu Val Ile Trp Lys Asp Cys Arg  
   50                          55

<210> 59  
 <211> 443  
 <212> PRT  
 <213> Homo sapiens

<400> 59  
 Met Arg Leu Thr Arg Lys Arg Leu Cys Ser Phe Leu Ile Ala Leu Tyr  
   1                          5                          10                          15  
 Cys Leu Phe Ser Leu Tyr Ala Ala Tyr His Val Phe Phe Gly Arg Arg  
           20                          25                          30  
 Arg Gln Ala Pro Ala Gly Ser Pro Arg Gly Leu Arg Lys Gly Ala Ala  
           35                          40                          45

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Pro Ala Arg Glu Arg Arg Gly Arg Glu Gln Ser Thr Leu Glu Ser Glu  
 50 55 60  
 Glu Trp Asn Pro Trp Glu Gly Asp Glu Lys Asn Glu Gln Gln His Arg  
 65 70 75 80  
 Phe Lys Thr Ser Leu Gln Ile Leu Asp Lys Ser Thr Lys Gly Lys Thr  
 85 90 95  
 Asp Leu Ser Val Gln Ile Trp Gly Lys Ala Ala Ile Gly Leu Tyr Leu  
 100 105 110  
 Trp Glu His Ile Phe Glu Gly Leu Leu Asp Pro Ser Asp Val Thr Ala  
 115 120 125  
 Gln Trp Arg Glu Gly Lys Ser Ile Val Gly Arg Thr Gln Tyr Ser Phe  
 130 135 140  
 Ile Thr Gly Pro Ala Val Ile Pro Gly Tyr Phe Ser Val Asp Val Asn  
 145 150 155 160  
 Asn Val Val Leu Ile Leu Asn Gly Arg Glu Lys Ala Lys Ile Phe Tyr  
 165 170 175  
 Ala Thr Gln Trp Leu Leu Tyr Ala Gln Asn Leu Val Gln Ile Gln Lys  
 180 185 190  
 Leu Gln His Leu Ala Val Val Leu Leu Gly Asn Glu His Cys Asp Asn  
 195 200 205  
 Glu Trp Ile Asn Pro Phe Leu Lys Arg Asn Gly Gly Phe Val Glu Leu  
 210 215 220  
 Leu Phe Ile Ile Tyr Asp Ser Pro Trp Ile Asn Asp Val Asp Val Phe  
 225 230 235 240  
 Gln Trp Pro Leu Gly Val Ala Thr Tyr Arg Asn Phe Pro Val Val Glu  
 245 250 255  
 Ala Ser Trp Ser Met Leu His Asp Glu Arg Pro Tyr Leu Cys Asn Phe  
 260 265 270  
 Leu Gly Thr Ile Tyr Glu Asn Ser Ser Arg Gln Ala Leu Met Asn Ile  
 275 280 285  
 Leu Lys Lys Asp Gly Asn Asp Lys Leu Cys Trp Val Ser Ala Arg Glu  
 290 295 300  
 His Trp Gln Pro Gln Glu Thr Asn Glu Ser Leu Lys Asn Tyr Gln Asp  
 305 310 315 320  
 Ala Leu Leu Gln Ser Asp Leu Thr Leu Cys Pro Val Gly Val Asn Thr  
 325 330 335  
 Glu Cys Tyr Arg Ile Tyr Glu Ala Cys Ser Tyr Gly Ser Ile Pro Val  
 340 345 350  
 Val Glu Asp Val Met Thr Ala Gly Asn Cys Gly Asn Thr Ser Val His  
 355 360 365  
 His Gly Ala Pro Leu Gln Leu Leu Lys Ser Met Gly Ala Pro Phe Ile  
 370 375 380  
 Phe Ile Lys Asn Trp Lys Glu Leu Pro Ala Val Leu Glu Lys Glu Lys  
 385 390 395 400

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<400> 63

Val Leu Met Ala Thr Ile Val Ala Phe Cys Cys Ala Arg Ser Gln Arg  
20 25 30

Asn Leu Lys Gly Val Val Ser Ala Lys Asn Asp Ile Arg Val Glu Ile  
35 40 45

Val His Lys Glu Pro Ala Ser Gly Arg Glu Gly Glu Glu His Ser Thr  
50 55 60

Ile Lys Gln Leu Met Met Asp Arg Gly Glu Phe Gln Gln Asp Ser Val  
65 70 75 80

Leu Lys Gln Leu Glu Val Leu Lys Glu Glu Glu Lys Glu Phe Gln Asn  
85 90 95

Leu Lys Asp Pro Thr Asn Gly Tyr Tyr Ser Val Asn Thr Phe Lys Glu  
100 105 110

His His Ser Thr Pro Thr Ile Ser Leu Ser Ser Cys Gln Pro Asp Leu  
115 120 125

Arg Pro Ala Gly Lys Gln Arg Val Pro Thr Gly Met Ser Phe Thr Asn  
130 135 140

Ile Tyr Ser Thr Leu Ser Gly Gln Gly Arg Leu Tyr Asp Tyr Gly Ser  
145 150 155 160

Gly Leu Cys Trp Ala Trp Ala Ala Arg Pro Ser Ser Phe Val Ser Gly  
165 170 175

Ser Ser Arg Glu Ala Pro Ser Ala Thr Ala Ala Pro Ser Trp Thr Arg  
180 185 190

Ser Val Thr Ala Ala Ser Ala Ala Ala Ala Ser Arg Met Ala Met Cys  
195 200 205

Ser Ser Thr Arg Pro Ala Arg Leu Leu Leu Pro Pro Pro Thr Thr Pro  
210 215 220

Ser Pro Arg Pro Arg Thr Leu Thr Pro Val Asp Pro Cys Ser Gly Gly  
225 230 235 240

Cys Arg Leu Thr Ser Lys Asp His Thr Pro Arg Val Gly Thr Gly Gln  
245 250 255

Gly Arg Gly Gln Gly Thr Phe Trp Leu Ser Arg Asp Glu Gly Tyr Phe  
260 265 270

Ala Glu Asp Thr Arg Ile Gly His Phe Gln Asp Ser Leu Pro Ala Pro  
275 280 285

Leu Pro Leu Pro Ser Phe Glu Ala Leu Ile Lys His Lys Ser Gly Ser  
290 295 300

Pro Gly Ala Val Cys Gln Arg Trp Ala Gly Gly Glu Thr Asp Arg Gly  
305 310 315 320

Cys Gly

<210> 64  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 64  
 Met Ala Gln Cys Cys Leu Trp Leu Gly Ser Trp Val Leu Asp Met Ala  
           1                  5                  10                  15  
 Ser Cys Ser Pro Phe Ser Thr Gly Ile Trp Lys Thr Ser Met Glu Leu  
                   20                  25                  30  
 Gln Pro Ser Leu Gly Ser Val Gln Ser  
           35                  40

<210> 65  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 65  
 Met Arg Thr Cys Gly Ile Trp Phe Cys Phe Cys Thr Ser Ser Leu Arg  
           1                  5                  10                  15  
 Ile Met Ala Ser Ser Phe Thr Tyr Val Ala Ala Lys Asn Met Ile Ser  
                   20                  25                  30  
 Leu Leu Leu Trp Leu His Ser Glu Met Gly Lys Val Pro Leu Ser Pro  
           35                  40                  45  
 Ser Gln Gly Val Arg Trp Gly Cys Asp Ser Leu Leu Gln Cys Pro Ala  
           50                  55                  60  
 Ala Gln Thr Ser Met Gly Gly Met Xaa Thr Gly Arg Leu Trp Gly Ser  
           65                  70                  75                  80  
 Asp Pro Lys Ala Val Ser Arg Gly Glu Ala Pro Val Gly Val Cys Tyr  
                   85                  90                  95  
 Arg Val Leu Phe Gln Phe Ser Arg Pro Xaa Ala Ala Cys Val Leu Ser  
           100                  105                  110  
 Ser Ile Arg Pro Leu Pro Tyr Arg Lys Asp Arg Gly Leu Ser Val Ser  
           115                  120                  125  
 Leu Gly Ser Cys Leu Gly Val Leu Glu Glu Ser Asp His Thr Trp Ala  
           130                  135                  140  
 Trp Arg Leu Ser Thr Arg Phe Cys  
           145                  150

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<210> 66  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 66  
 Met Ile Leu Phe Leu Leu Leu Pro Leu Pro Cys Gly Ala Phe Leu Gln  
     1                    5                    10                    15  
 Phe Phe Thr Trp Leu Thr Leu Thr Gln Pro Leu Lys Phe Ser Ser Gly  
                     20                    25                    30  
 Ala Ile Ser Ser Xaa Lys Gly Thr Ser Xaa Ser Pro Asp  
             35                    40                    45

<210> 67  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 67  
 Met Gly His Tyr Leu Leu Leu Leu Thr Leu His Pro Pro Ala Thr His  
     1                    5                    10                    15  
 Pro Ser Leu Ser Arg Val Leu Cys Val Leu Trp Cys Leu Ser Leu Trp  
                     20                    25                    30  
 Thr Gly Gln Lys Ile Thr Gln Asp Asn Ala Met Pro Phe Thr Leu Asp  
             35                    40                    45  
 Ser Val Val Phe Met Phe Ser Gln Leu Glu Cys Phe Ser Leu Met Ala  
     50                    55                    60  
 Ala Thr Gly Ser Tyr Ile Val Leu  
     65                    70

<210> 68  
 <211> 362  
 <212> PRT  
 <213> Homo sapiens

<400> 68  
 Met Thr Leu Ile Glu Gly Val Gly Asp Glu Val Thr Val Leu Phe Ser  
     1                    5                    10                    15  
 Val Leu Ala Cys Leu Leu Val Leu Ala Leu Ala Trp Val Ser Thr His  
             20                    25                    30  
 Thr Ala Glu Gly Gly Asp Pro Leu Pro Gln Pro Ser Gly Thr Pro Thr  
             35                    40                    45  
 Pro Ser Gln Pro Ser Ala Ala Met Ala Ala Thr Asp Ser Met Arg Gly  
     50                    55                    60

00661453-091300



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<210> 70
<211> 90
<212> PRT
<213> Homo sapiens
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<210> 71
<211> 43
<212> PRT
<213> Homo sapiens
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<210> 72
<211> 53
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 72

Met Leu Met Arg Tyr Lys Ser Tyr Phe Phe Ile Ser Ile Leu Leu Leu  
 1 5 10 15

Cys Cys Phe Phe Phe Leu Ile Leu Gln Val Tyr Lys Leu Ser Phe Lys  
 20 25 30

Ile Leu Ser Gln Asp Phe Lys Asn Cys Arg Val Leu Val Trp Arg Ser  
 35 40 45

Leu Pro Ser Phe Ser  
 50

&lt;210&gt; 73

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

Met Ser Phe Leu Gly Phe Ile Leu Asn Leu Gly Ala Arg Leu Ile Val  
 1 5 10 15

Gln Pro Gln Ala Ala Leu Ala Ser Arg Gly Leu Arg Gly Gln Gly Leu  
 20 25 30

Pro Cys Glu Thr Gln Val Cys Lys Arg Thr Leu Arg Pro Gly Ala Val  
 35 40 45

Gly Trp Leu Val His Lys Gly Arg Arg Ala Leu Ser Ile Ser Arg Lys  
 50 55 60

Ser Ala Leu Val Ser Leu Gly Val Met Tyr Val Gly Pro Gly Lys Arg  
 65 70 75 80

Pro Gly Val Val Arg Lys His Ser Leu Leu Val Lys Met Gln Ala Arg  
 85 90 95

Gly Lys Glu Val Ser Pro Thr Met Cys  
 100 105

&lt;210&gt; 74

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (48)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (49)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (78)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 74

Met Trp Leu Leu Cys Val Ala Leu Ala Val Leu Ala Trp Gly Phe Leu  
 1 5 10 15

00661453-091300



```
<210> 75
<211> 56
<212> PRT
<213> Homo sapiens
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```
<210> 76
<211> 59
<212> PRT
<213> Homo sapiens
```

<400> 76  
Met Thr Pro Ser Leu Leu Ser Glu Lys Leu Cys Ser Leu Phe Phe Val  
1 5 10 15

Leu Leu Gly Ile Ala Ser Ala Ala Phe Val Ser Ala Leu Trp Ala Trp  
                   20                                  25                                  30  
 Ser Ser His Thr Glu Arg Leu Thr Ala Glu Pro Ser Ser Ser Ile Thr  
                   35                                  40                                  45  
 Cys Leu Ser Pro Pro Trp Phe Phe Phe Pro Phe  
           50                                  55

<210> 77  
 <211> 385  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (159)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (269)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (348)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 77  
 Met Trp Gly Phe Arg Leu Leu Arg Ser Pro Pro Leu Leu Leu Leu Leu  
   1                                  5                                  10                                  15

Pro Gln Leu Gly Ile Gly Asn Ala Ser Ser Cys Ser Gln Ala Arg Thr  
                   20                                  25                                  30

Met Asn Pro Gly Gly Ser Gly Gly Ala Arg Cys Ser Leu Ser Ala Glu  
           35                                  40                                  45

Val Arg Arg Arg Gln Cys Leu Gln Leu Ser Thr Val Pro Gly Ala Xaa  
   50                                  55                                  60

Pro Gln Arg Xaa Asn Glu Leu Leu Leu Leu Ala Ala Ala Gly Glu Gly  
   65                                  70                                  75                                  80

Leu Glu Arg Gln Asp Leu Pro Gly Asp Pro Ala Lys Glu Glu Pro Gln  
                   85                                  90                                  95

Pro Pro Pro Gln His His Val Leu Tyr Phe Pro Gly Asp Val Gln Asn  
           100                                  105                                  110

Tyr His Glu Ile Met Thr Arg His Pro Glu Asn Tyr Gln Trp Glu Asn  
           115                                  120                                  125

Trp Ser Leu Glu Asn Val Ala Thr Ile Leu Ala His Arg Phe Pro Asn





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<210> 80
<211> 1010
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (362)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (525)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (643)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (649)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (656)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (660)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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Ser Arg Ser Trp Phe Phe Glu Xaa Ile Asn Lys Ile Asp Arg Pro Leu  
100 105 110

Ala Arg Leu Ile Lys Lys Lys Arg Glu Lys Asn Gln Ile Asp Ala Ile  
 115 120 125  
 Lys Asn Asp Lys Gly Asp Ile Thr Thr Asp Pro Thr Glu Ile Gln Thr  
 130 135 140  
 Thr Ile Arg Glu Tyr Tyr Lys His Leu Tyr Ala Asn Lys Leu Glu Asn  
 145 150 155 160  
 Leu Glu Glu Met Asp Lys Phe Leu Asp Thr Tyr Thr Leu Pro Arg Leu  
 165 170 175  
 Asn Gln Glu Glu Val Glu Ser Leu Asn Arg Pro Ile Thr Gly Ser Glu  
 180 185 190  
 Ile Xaa Ala Ile Ile Asn Ser Leu Pro Thr Lys Lys Ser Pro Gly Pro  
 195 200 205  
 Asp Gly Phe Thr Ala Glu Phe Tyr Gln Arg Tyr Lys Glu Glu Leu Val  
 210 215 220  
 Pro Phe Leu Leu Lys Leu Phe Gln Ser Ile Glu Lys Glu Gly Ile Leu  
 225 230 235 240  
 Pro Asn Ser Phe Tyr Glu Ala Ser Ile Ile Leu Ile Pro Lys Pro Gly  
 245 250 255  
 Arg Asp Thr Thr Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu Met Asn  
 260 265 270  
 Ile Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala Asn Arg Ile Gln Gln  
 275 280 285  
 His Ile Lys Lys Leu Ile His His Asp Gln Val Gly Phe Ile Pro Gly  
 290 295 300  
 Met Gln Gly Trp Phe Asn Ile Arg Lys Ser Ile Asn Val Ile Gln His  
 305 310 315 320  
 Ile Asn Arg Thr Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala  
 325 330 335  
 Glu Lys Ala Phe Asp Lys Ile Gln Gln Pro Phe Met Leu Lys Thr Leu  
 340 345 350  
 Asn Lys Leu Gly Ile Asp Gly Thr Tyr Xaa Lys Ile Ile Arg Ala Ile  
 355 360 365  
 Tyr Asp Lys Pro Thr Ala Asn Ile Ile Leu Asn Gly Gln Lys Leu Glu  
 370 375 380  
 Ala Phe Pro Leu Lys Thr Gly Thr Arg Gln Gly Cys Pro Leu Ser Pro  
 385 390 395 400  
 Leu Leu Phe Asn Ile Val Leu Glu Val Leu Ala Arg Ala Ile Arg Gln  
 405 410 415  
 Glu Lys Glu Ile Lys Gly Ile Gln Leu Gly Lys Glu Glu Val Lys Leu  
 420 425 430  
 Ser Leu Phe Ala Asp Asp Met Ile Val Tyr Leu Glu Asn Pro Ile Val  
 435 440 445  
 Ser Ala Gln Asn Leu Leu Lys Leu Ile Ser Asn Phe Ser Lys Val Ser  
 450 455 460

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Lys Glu Asp Ile Tyr Ala Ala Lys Xaa His Met Lys Lys Cys Ser Ser  
                   820                  825                  830  
 Ser Leu Ala Ile Arg Glu Met Gln Ile Lys Thr Thr Met Arg Tyr His  
                   835                  840                  845  
 Leu Thr Pro Val Arg Met Ala Ile Ile Lys Lys Ser Gly Asn Asn Arg  
                   850                  855                  860  
 Cys Trp Arg Gly Cys Gly Glu Ile Gly Thr Leu Leu His Cys Trp Trp  
                   865                  870                  875                  880  
 Asp Cys Lys Leu Val Gln Pro Leu Trp Lys Ser Val Trp Arg Phe Leu  
                   885                  890                  895  
 Arg Asp Leu Glu Leu Glu Ile Pro Phe Asp Pro Ala Ile Pro Leu Leu  
                   900                  905                  910  
 Gly Ile Tyr Pro Lys Asp Tyr Lys Ser Cys Cys Tyr Lys Asp Thr Cys  
                   915                  920                  925  
 Thr Arg Met Phe Ile Ala Ala Leu Phe Thr Ile Ala Lys Thr Trp Asn  
                   930                  935                  940  
 Gln Pro Lys Cys Pro Thr Met Ile Asp Trp Ile Lys Lys Met Trp His  
                   945                  950                  955                  960  
 Ile Tyr Thr Met Glu Tyr Tyr Ala Ala Ile Lys Asn Asp Glu Phe Met  
                   965                  970                  975  
 Ser Phe Val Gly Thr Trp Met Lys Leu Glu Xaa Ile Ile Leu Ser Lys  
                   980                  985                  990  
 Leu Ser Gln Xaa Gln Lys Thr Lys His Arg Xaa Phe Ser Leu Ile Gly  
                   995                  1000                  1005  
 Gly Asn  
                   1010

<210> 81  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 81  
 Met Arg Leu Thr Arg Lys Arg Leu Cys Ser Phe Leu Ile Ala Leu Tyr  
       1                  5                  10                  15  
 Cys Leu Phe Ser Leu Tyr Ala Ala Tyr His Val Phe Phe Gly Arg Arg  
                   20                  25                  30  
 Arg Gln Ala Pro Ala Gly Ser Pro Arg Gly Leu Arg Lys Gly Ala Ala  
                   35                  40                  45  
 Pro Ala Arg Glu Arg Arg Gly Arg Glu Gln Ser Thr Leu Glu Ser Glu  
                   50                  55                  60  
 Glu Trp Asn Pro Trp Glu Gly Asp Glu Lys Asn Glu Gln Gln His Arg  
                   65                  70                  75                  80  
 Phe Lys Thr Ser Leu Gln Ile Leu Asp Lys Ser Thr Lys Gly Lys Thr  
                   85                  90                  95  
 Asp Leu Ser Val Gln Ile Trp Gly Lys Ala Ala Ile Val Gln Ala Gly  
                   100                  105                  110

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145                      150                      155                      160  
 Leu Ser Gly Gln Gly Pro Leu Arg Leu Arg Gln Arg Phe Val Leu Gly  
                                  165                      170                      175  
 Met Gly Ser Ser Ser Ile Glu Xaa Cys Glu Arg Glu Phe Gln Arg Gly  
                                  180                      185                      190  
 Ser Leu Ser Asp Ser Ser Ser Phe Leu Asp Thr Gln Cys Asp Ser Ser  
                                  195                      200                      205  
 Val Ser Ser Ser Gly Lys Gln Asp Gly Tyr Val Gln Phe Asp Lys Ala  
                                  210                      215                      220  
 Ser Lys Ala Ser Ala Ser Ser Ser His His Ser Gln Ser Ser Ser Gln  
                                  225                      230                      235                      240  
 Asn Ser Asp Pro Ser Arg Pro Leu Gln Arg Arg Met Gln Thr His Val  
                                  245                      250                      255

<210> 84  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 84  
 Met Thr Leu Ile Glu Gly Val Gly Asp Glu Val Thr Val Leu Phe Ser  
   1                                 5                                 10                                 15  
 Val Leu Ala Cys Leu Leu Val Leu Ala Leu Ala Trp Val Ser Thr His  
                                  20                                 25                                 30  
 Thr Ala Glu Gly Gly Asp Pro Leu Pro Gln Pro Ser Gly Thr Pro Thr  
                                  35                                 40                                 45  
 Pro Ser Gln Pro Ser Ala Ala Trp Gln Leu Pro Thr Ala  
                                  50                                 55                                 60

<210> 85  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 85  
 Met Glu Leu Ser Gly Ile Leu Trp Gln Phe Ser Ala Thr Ser Phe Pro  
   1                                 5                                 10                                 15  
 Ser Ser Gln Ala Ser Trp Pro  
                                  20

<210> 86  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 86  
 Met Ala Val Thr Trp Arg Gln Ala Leu Leu Arg Ala Leu Cys Ile Ser  
   1                                 5                                 10                                 15  
 Gly Val Cys Ser Gln Gly Lys Trp Lys Arg Phe Phe Gln Ser Ser Thr

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20 25 30

Ala His Pro Ser Met Arg Trp Arg Gly Arg Pro Leu Ala Arg Thr Leu  
35 40 45

Ser Val Trp Thr Lys Asp Ala Lys Leu Cys Cys Gly His Ser Thr Asp  
50 55 60

Gly Ala Leu Arg Ala Gly Arg Thr Pro Val Pro Ser Ser Glu Glu Ala  
65 70 75 80

His Gly Leu Leu Gln Pro Cys Pro Gly Arg  
85 90

<210> 87  
<211> 90  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 87  
Met Ala Val Thr Trp Xaa Gln Ala Leu Leu Arg Ala Leu Cys Ile Ser  
1 5 10 15

Gly Val Cys Ser Gln Gly Lys Trp Lys Arg Phe Phe Gln Ser Ser Thr  
20 25 30

Ala His Pro Ser Met Arg Trp Arg Gly Arg Pro Leu Ala Arg Thr Leu  
35 40 45

Ser Val Trp Thr Lys Asp Ala Lys Leu Cys Cys Gly His Ser Thr Asp  
50 55 60

Gly Ala Leu Arg Ala Gly Arg Thr Pro Val Pro Ser Ser Glu Glu Ala  
65 70 75 80

His Gly Leu Leu Gln Pro Cys Pro Gly Arg  
85 90

<210> 88  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 88  
Met Gln Ile Leu Leu Leu Phe Tyr Phe Ser Arg Phe Leu Ala Pro Ser  
1 5 10 15

Arg Xaa Pro Thr Leu Glu Gly Val Gln  
20 25

<210> 89  
<211> 50  
<212> PRT

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<210> 91
<211> 21
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 91
Arg Pro Ser Trp Tyr Xaa Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 1          5          10          15
Thr His Ala Ser Gly
          20

<210> 92
<211> 124
<212> PRT
<213> Homo sapiens

<400> 92
Gln Leu Asp Gly Val Gly Leu Glu Ser Arg Ser Pro Gly Cys Ser Thr
 1          5          10          15
Trp Glu Lys Ala Asp Arg Val Arg Gly Pro Val Ala Gln Arg Ala Val
          20          25          30
Ala Ser Gly Ser Gly Lys Trp Arg Gln Glu Pro Ser Leu His Phe Ala
          35          40          45
Met Ser Phe Leu Ile Asp Ser Ser Ile Met Ile Thr Ser Gln Ile Leu

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<210> 93
<211> 43
<212> PRT
<213> Homo sapiens

<400> 93
Gln Leu Asp Gly Val Gly Leu Glu Ser Arg Ser Pro Gly Cys Ser Thr
 1          5          10          15
Trp Glu Lys Ala Asp Arg Val Arg Gly Pro Val Ala Gln Arg Ala Val
          20          25          30
Ala Ser Gly Ser Gly Lys Trp Arg Gln Glu Pro
          35          40

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<210> 94
<211> 44
<212> PRT
<213> Homo sapiens

<400> 94
Ser Leu His Phe Ala Met Ser Phe Leu Ile Asp Ser Ser Ile Met Ile
 1          5          10          15
Thr Ser Gln Ile Leu Phe Phe Gly Phe Gly Trp Leu Phe Phe Met Arg
          20          25          30
Gln Leu Phe Lys Asp Tyr Glu Ile Arg Gln Tyr Val
      35          40

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<210> 95
<211> 37
<212> PRT
<213> Homo sapiens

<400> 95
Val Gln Val Ile Phe Ser Val Thr Phe Ala Phe Ser Cys Thr Met Phe
  1                               5                      10              15
Glu Leu Ile Ile Phe Glu Ile Leu Gly Val Leu Asn Ser Ser Ser Arg
          20                      25              30
Tyr Phe His Trp Lys
      35

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<210> 96
<211> 43
<212> PRT
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Ser Gly Arg Leu Gln Asp Leu Gly Met Glu Leu Leu Ala Lys Ser Ser  
 100 105 110  
 Val Ala Asn Cys Tyr Ile Arg Asn Ser Thr Asn Lys Lys Ser Asn Ser  
 115 120 125  
 Pro Lys Pro Ala Arg Ser Ser Val Ala Gly Ser Leu Ser Leu Arg Arg  
 130 135 140  
 Ala Val Asp Pro Gly Glu Asn Ser Arg Ser Lys Gly Asp Cys Gln Thr  
 145 150 155 160  
 Leu Ser Glu Gly Ser Pro Gly Ser Ser Gln Ser Gly Ser Arg His Ser  
 165 170 175  
 Ser Pro Arg Ala Leu Ile His Gly Ser Ile Gly Asp Ile Leu Pro Lys  
 180 185 190  
 Thr Glu Asp Arg Gln Cys Lys Ala Leu Asp Ser Asp Ala Val Val Val  
 195 200 205  
 Ala Val Phe Ser Gly Leu Pro Ala Val Glu Lys Arg Arg Lys Met Val  
 210 215 220  
 Thr Leu Gly Ala Asn Ala Lys Gly Gly His Leu Glu Gly Leu Gln Met  
 225 230 235 240  
 Thr Asp Leu Glu Asn Asn Ser Glu Thr Gly Glu Leu Gln Pro Val Leu  
 245 250 255  
 Pro Glu Gly Ala Ser Ala Ala Pro Glu Glu Gly Met Ser Ser Asp Ser  
 260 265 270  
 Asp Ile Glu Cys Asp Thr Glu Asn Glu Glu Gln Glu Glu His Thr Ser  
 275 280 285  
 Val Gly Gly Phe His Asp Ser Phe Met Val Met Thr Gln Pro Pro Asp  
 290 295 300  
 Glu Asp Thr His Ser Ser Phe Pro Asp Gly Glu Gln Ile Gly Pro Glu  
 305 310 315 320  
 Asp Leu Ser Phe Asn Thr Asp Glu Asn Ser Gly Arg  
 325 330

<210> 100  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Asn Leu Trp Gly Leu Gln Pro Arg Pro Pro Ala Ser Leu Leu Gln Pro  
 1 5 10 15  
 Thr Ala Ser Tyr Ser Arg Lys Asp Lys Asp Gln Arg Lys Gln Gln Ala  
 20 25 30  
 Met Trp Arg Val Pro Ser Asp Leu  
 35 40

<210> 101  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 101

Lys Met Leu Lys Arg Leu Lys Thr Gln Met Ala Glu Val Arg Cys Met  
 1 5 10 15

Lys Thr Asp Val Lys Asn Thr Leu Ser Glu Ile Lys Ser Ser Ser Ala  
 20 25 30

Ala Ser Gly Asp Met Gln Thr Ser Leu  
 35 40

&lt;210&gt; 102

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 102

Phe Ser Ala Asp Gln Ala Ala Leu Ala Ala Cys Gly Thr Glu Asn Ser  
 1 5 10 15

Gly Arg Leu Gln Asp Leu Gly Met Glu Leu Leu Ala Lys Ser Ser Val  
 20 25 30

Ala Asn Cys Tyr Ile Arg Asn Ser Thr  
 35 40

&lt;210&gt; 103

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 103

Asn Lys Lys Ser Asn Ser Pro Lys Pro Ala Arg Ser Ser Val Ala Gly  
 1 5 10 15

Ser Leu Ser Leu Arg Arg Ala Val Asp Pro Gly Glu Asn Ser Arg Ser  
 20 25 30

Lys Gly Asp Cys Gln Thr Leu Ser Glu Gly  
 35 40

&lt;210&gt; 104

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 104

Ser Pro Gly Ser Ser Gln Ser Gly Ser Arg His Ser Ser Pro Arg Ala  
 1 5 10 15

Leu Ile His Gly Ser Ile Gly Asp Ile Leu Pro Lys Thr Glu Asp Arg  
 20 25 30

Gln Cys Lys Ala Leu Asp Ser Asp Ala Val Val Val  
 35 40

&lt;210&gt; 105

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

006645-09300

Ala Val Phe Ser Gly Leu Pro Ala Val Glu Lys Arg Arg Lys Met Val  
1 5 10 15



Thr Glu Cys Tyr Arg Ile Tyr Glu Ala Cys Ser Tyr Gly Ser Ile Pro  
 370 375 380  
 Val Val Glu Asp Val Met Thr Ala Gly Asn Cys Gly Asn Thr Ser Val  
 385 390 395 400  
 His His Gly Ala Pro Leu Gln Leu Leu Lys Ser Met Gly Ala Pro Phe  
 405 410 415  
 Ile Phe Ile Lys Asn Trp Lys Glu Leu Pro Ala Val Leu Glu Lys Glu  
 420 425 430  
 Lys Thr Ile Ile Leu Gln Glu Lys Ile Glu Arg Arg Lys Met Leu Leu  
 435 440 445  
 Gln Trp Tyr Gln His Phe Lys Thr Glu Leu Lys Met Lys Phe Thr Asn  
 450 455 460  
 Ile Leu Glu Ser Ser Phe Leu Met Asn Asn Lys Ser  
 465 470 475

<210> 110  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 110  
 Pro Gly Asn Gly Phe Val Val Trp Ser Leu Ala Gly Trp Arg Pro Ala  
 1 5 10 15  
 Arg Gly Arg Pro Leu Ala Ala Thr Leu Val Leu His Leu Ala Leu Ala  
 20 25 30  
 Asp Gly Ala Val Leu Leu Leu Thr Pro Leu Phe Val Ala Phe Leu Thr  
 35 40 45  
 Arg Gln Ala Trp Pro Leu Gly Gln Ala Gly Cys Lys Ala Val Tyr Tyr  
 50 55 60  
 Val Cys Ala Leu  
 65

<210> 111  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Phe Gly Leu Leu Trp Ala Pro Tyr His Ala Val Asn Leu Leu Gln Ala  
 1 5 10 15  
 Val Ala Ala Leu Ala Pro Pro Glu Gly Ala Leu Ala Lys Leu Gly Gly  
 20 25 30  
 Ala Gly Gln Ala Ala Arg Ala Gly Thr Thr Ala Leu Ala Phe Phe Ser  
 35 40 45  
 Ser Ser Val Asn Pro Val Leu Tyr Val Phe Thr Ala Gly Asp Leu Leu  
 50 55 60  
 Pro Arg Ala Gly Pro Arg Phe Leu Thr Arg Leu Phe Glu Gly Ser Gly  
 65 70 75 80

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<210> 114  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 114  
 Pro Ser Ser Ala Cys Ser Gly Pro Pro Thr Thr Gln Ser Thr Phe Cys  
   1                  5                  10                  15  
 Arg Arg Ser Gln Arg Trp Leu His Arg Lys Gly Pro Trp Arg Ser Trp  
                   20                  25                  30  
 Ala Glu Pro Ala Arg Arg Arg Glu Arg Glu Leu Arg Pro Trp Pro Ser  
                   35                  40                  45  
 Ser Val Leu Ala Ser Thr Arg Cys Ser Thr Ser Ser Pro Leu Glu Ile  
           50                  55                  60  
 Cys Cys Pro Gly Gln Val Pro Val Ser Ser Arg Gly Ser Ser Lys Ala  
   65                  70                  75                  80  
 Leu Gly Arg Pro Glu Gly Ala Ala Ala  
                   85

<210> 115  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 115  
 Pro Gly Lys Pro Gly Arg Trp Ala Arg Arg Ala Ala Arg Arg Cys Thr  
   1                  5                  10                  15  
 Thr Cys Ala Arg Ser Ala Cys Thr Pro Ala Cys Cys Ser Pro Ala Cys  
                   20                  25                  30  
 Ser Ala Cys Ser Ala Ala Ser Arg Ser Pro Ala Pro Ser Trp Arg Leu  
           35                  40                  45  
 Gly Ala Gln Pro Gly Pro Gly Pro Pro Pro Ala Ala Gly Gly Leu Ala  
   50                  55                  60  
 Gly Arg Pro Val Ala Arg Arg Pro Gly Arg Arg Leu Pro Pro Pro Val  
   65                  70                  75                  80  
 Glu Gly Pro Arg Met Pro Ala Val Pro Pro Val Ala Gly Pro Arg Arg  
                   85                  90                  95  
 Arg Pro Pro Glu Pro Gly Asp Ser Asp Arg Phe Arg Ala Ser Phe Arg  
           100                  105                  110  
 Ala Asp Ala Arg Leu Leu Gln Arg Asp Ala Gly Thr Ala Ala Gly Arg  
   115                  120                  125  
 Pro Leu Gly Leu Arg Ala Ala Arg Gly Ala Gly Gly Pro Ala Gly Glu  
   130                  135                  140  
 Arg His Arg Ala Phe  
 145

<210> 116  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

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&lt;400&gt; 116

Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys  
 1 5 10 15  
 Leu Ala Val Thr Arg Pro Phe Leu Ala Pro Arg Cys Ala Ala Arg Pro  
 20 25 30  
 Trp Pro Ala Ala Cys Cys Trp Arg Ser Gly Trp Pro Pro Cys Cys Ser  
 35 40 45  
 Pro Ser Arg Pro Pro Ser Thr Ala Thr Cys Gly Gly Thr Ala Tyr Ala  
 50 55 60  
 Ser Cys Ala Thr Arg Arg Arg Ser Thr Pro Pro Pro Thr  
 65 70 75

&lt;210&gt; 117

&lt;211&gt; 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (39)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 117

Val Ser Pro Gln Lys Ala Ala Ser Leu Val Arg Ile Arg Trp Arg His  
 1 5 10 15  
 Val Arg Pro Ser Pro Pro Ser Ala Ser Arg Leu Arg Arg Leu Pro Pro  
 20 25 30  
 Arg His Leu Thr Val Ala Xaa Arg Pro Arg Arg Glu Gly Val Gly Thr  
 35 40 45  
 Gly Ser Arg Ala Val Leu Cys Ile Leu Ala Thr Cys Gly Ser Lys Met  
 50 55 60  
 Ser Asp Ile Gly Asp Trp Phe Arg Ser Ile Pro Ala Ile Thr Arg Tyr  
 65 70 75 80  
 Trp Phe Ala Ala Thr Val Ala Val Pro Leu Val Gly Lys Leu Gly Leu  
 85 90 95  
 Ile Ser Pro Ala Tyr Leu Phe Leu Trp Pro Glu Ala Phe Leu Tyr Arg  
 100 105 110  
 Phe Gln Ile Trp Arg Pro Ile Thr Ala Thr Phe Tyr Phe Pro Val Gly  
 115 120 125  
 Pro Gly Thr Gly Phe Leu Tyr Leu Val Asn Leu Tyr Phe Leu Tyr Gln  
 130 135 140  
 Tyr Ser Thr Arg Leu Glu Thr Gly Ala Phe Asp Gly Arg Pro Ala Asp  
 145 150 155 160  
 Tyr Leu Phe

&lt;210&gt; 118

&lt;211&gt; 43

&lt;212&gt; PRT

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<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (300)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122

Val	Ser	Pro	Gln	Lys	Ala	Ala	Ser	Leu	Val	Arg	Ile	Arg	Trp	Arg	His
1				5					10					15	
Val	Arg	Pro	Ser	Pro	Pro	Ser	Ala	Ser	Arg	Leu	Arg	Arg	Leu	Pro	Pro
			20					25					30		
Arg	His	Leu	Thr	Val	Ala	Xaa	Arg	Pro	Arg	Arg	Glu	Gly	Val	Gly	Thr
		35					40					45			
Gly	Ser	Arg	Ala	Val	Leu	Cys	Ile	Leu	Ala	Thr	Cys	Gly	Ser	Lys	Met
	50					55					60				
Ser	Asp	Ile	Gly	Asp	Trp	Phe	Arg	Ser	Ile	Pro	Ala	Ile	Thr	Arg	Tyr
65					70					75					80
Trp	Phe	Ala	Ala	Thr	Val	Ala	Val	Pro	Leu	Val	Gly	Lys	Leu	Gly	Leu
				85				90						95	
Ile	Ser	Pro	Ala	Tyr	Leu	Phe	Leu	Trp	Pro	Glu	Ala	Phe	Leu	Tyr	Arg
			100					105					110		
Phe	Gln	Ile	Trp	Arg	Pro	Ile	Thr	Ala	Thr	Phe	Tyr	Phe	Pro	Val	Gly
		115					120					125			
Pro	Gly	Thr	Gly	Phe	Leu	Tyr	Leu	Val	Asn	Leu	Tyr	Phe	Leu	Tyr	Gln
	130					135					140				
Tyr	Ser	Thr	Arg	Leu	Glu	Thr	Gly	Ala	Phe	Asp	Gly	Arg	Pro	Ala	Asp
145					150					155					160
Tyr	Leu	Phe	Met	Leu	Leu	Phe	Asn	Trp	Ile	Cys	Ile	Val	Ile	Thr	Gly
			165					170						175	
Leu	Ala	Met	Asp	Met	Gln	Leu	Leu	Met	Ile	Pro	Leu	Ile	Met	Ser	Val
		180						185					190		
Leu	Tyr	Val	Trp	Ala	Gln	Leu	Asn	Arg	Asp	Met	Ile	Val	Ser	Phe	Trp
		195					200					205			
Phe	Gly	Thr	Arg	Phe	Lys	Ala	Cys	Tyr	Leu	Pro	Trp	Val	Ile	Leu	Gly
	210					215					220				
Phe	Asn	Tyr	Ile	Ile	Gly	Gly	Ser	Val	Ile	Asn	Glu	Leu	Ile	Gly	Asn
225					230					235					240
Leu	Val	Gly	His	Leu	Tyr	Phe	Phe	Leu	Met	Phe	Arg	Tyr	Pro	Met	Asp
			245						250					255	
Leu	Gly	Gly	Arg	Asn	Phe	Leu	Ser	Thr	Pro	Gln	Phe	Leu	Tyr	Arg	Trp
			260					265					270		
Leu	Pro	Ser	Arg	Arg	Gly	Gly	Val	Ser	Gly	Phe	Gly	Val	Pro	Pro	Ala
		275					280								285

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<400> 129
Ala Pro Val Ser Ile Ile Pro Phe Cys Val Cys Pro Cys Val Gln Asn
  1             5             10             15
Val Leu Leu Pro Leu

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```
<210> 130
<211> 103
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```

<400> 130
Met Phe Leu Leu Asp Gly Ser Asn Trp Ile Leu His Cys Pro Ile Thr
  1          5          10          15
Leu Arg Thr Tyr Thr Thr Asn Leu Ser Ile Lys Phe Ser Lys Cys Ser
      20          25          30
Val Asn Ile Tyr Ser Leu Glu Asn Lys Xaa Phe Phe Ser Lys Lys Lys
      35          40          45
Lys Lys Lys Arg Lys Glu Asn Asn Pro Gly Asn Lys Ile Ser Asn Gly
      50          55          60
Glu Ile Ser Val Thr Leu Thr Gly Ile Cys Lys Ile Phe Trp Lys Arg
      65          70          75          80
Ala Pro Phe Phe Phe His Phe Gln Ser Tyr Leu Trp Cys Ser Tyr Arg
      85          90          95
Val Gln Thr Ser Arg Ser Phe
      100

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```
<210> 131
<211> 211
<212> PRT
<213> Homo sapiens
```

```

<400> 131
Gly Arg Gly Pro Thr Ala Pro Ala Val Arg Asp Pro Asn Ala Ile Pro
  1          5          10          15
Ala Gln Arg Ser Met Ala Ala Thr Asp Ser Met Arg Gly Glu Ala Pro
          20          25          30
Gly Ala Glu Thr Pro Ser Leu Arg His Arg Gly Gln Ala Ala Gln Pro
          35          40          45
Glu Pro Ser Thr Gly Phe Thr Ala Thr Pro Pro Ala Pro Asp Ser Pro
          50          55          60
Gln Glu Pro Leu Val Leu Arg Leu Lys Phe Leu Asn Asp Ser Glu Gln
          65          70          75          80
Val Ala Arg Ala Trp Pro His Asp Thr Ile Gly Ser Leu Lys Arg Thr
          85          90          95
Gln Phe Pro Gly Arg Glu Gln Gln Val Arg Leu Ile Tyr Gln Gly Gln
          100          105          110
Leu Leu Gly Asp Asp Thr Gln Thr Leu Gly Ser Leu His Leu Pro Pro
          115          120          125

```

Asn Cys Val Leu His Cys His Val Ser Thr Arg Val Gly Pro Pro Asn  
 130 135 140  
 Pro Pro Cys Pro Pro Gly Ser Glu Pro Gly Pro Ser Gly Leu Glu Ile  
 145 150 155 160  
 Gly Ser Leu Leu Leu Pro Leu Leu Leu Leu Leu Leu Leu Trp  
 165 170 175  
 Tyr Cys Gln Ile Gln Tyr Arg Pro Phe Phe Pro Leu Thr Ala Thr Leu  
 180 185 190  
 Gly Leu Ala Gly Phe Thr Leu Leu Leu Ser Leu Leu Ala Phe Ala Met  
 195 200 205  
 Tyr Arg Pro  
 210

<210> 132  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Gly Arg Gly Pro Thr Ala Pro Ala Val Arg Asp Pro Asn Ala Ile Pro  
 1 5 10 15  
 Ala Gln Arg Ser Met Ala Ala Thr Asp Ser Met Arg Gly Glu Ala Pro  
 20 25 30  
 Gly Ala Glu Thr Pro Ser Leu Arg His Arg  
 35 40

<210> 133  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 133  
 Gly Gln Ala Ala Gln Pro Glu Pro Ser Thr Gly Phe Thr Ala Thr Pro  
 1 5 10 15  
 Pro Ala Pro Asp Ser Pro Gln Glu Pro Leu Val Leu Arg Leu Lys Phe  
 20 25 30  
 Leu Asn Asp Ser Glu Gln Val Ala Arg Ala Trp  
 35 40

<210> 134  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 134  
 Pro His Asp Thr Ile Gly Ser Leu Lys Arg Thr Gln Phe Pro Gly Arg  
 1 5 10 15  
 Glu Gln Gln Val Arg Leu Ile Tyr Gln Gly Gln Leu Leu Gly Asp Asp  
 20 25 30  
 Thr Gln Thr Leu Gly Ser Leu His Leu Pro Pro Asn Cys Val  
 35 40 45

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<210> 135  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 135  
 Leu His Cys His Val Ser Thr Arg Val Gly Pro Pro Asn Pro Pro Cys  
   1                  5                  10                  15  
 Pro Pro Gly Ser Glu Pro Gly Pro Ser Gly Leu Glu Ile Gly Ser Leu  
                   20                  25                  30  
 Leu Leu Pro Leu Leu Leu Leu Leu Leu Leu Leu Trp Tyr  
           35                  40                  45

<210> 136  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 136  
 Cys Gln Ile Gln Tyr Arg Pro Phe Phe Pro Leu Thr Ala Thr Leu Gly  
   1                  5                  10                  15  
 Leu Ala Gly Phe Thr Leu Leu Leu Ser Leu Leu Ala Phe Ala Met Tyr  
                   20                  25                  30  
 Arg Pro

<210> 137  
 <211> 394  
 <212> PRT  
 <213> Homo sapiens

<400> 137  
 Thr Arg Pro Gly Ile Trp Gly Gln Ala Ala Arg Gly Ala Trp Arg Asp  
   1                  5                  10                  15  
 Phe Gln Arg Arg Arg Gly Leu Gly Ser Ala Ala Gly Lys Ala Gly Ala  
                   20                  25                  30  
 Met Thr Leu Ile Glu Gly Val Gly Asp Glu Val Thr Val Leu Phe Ser  
           35                  40                  45  
 Val Leu Ala Cys Leu Leu Val Leu Ala Leu Ala Trp Val Ser Thr His  
           50                  55                  60  
 Thr Ala Glu Gly Gly Asp Pro Leu Pro Gln Pro Ser Gly Thr Pro Thr  
   65                  70                  75                  80  
 Pro Ser Gln Pro Ser Ala Ala Met Ala Ala Thr Asp Ser Met Arg Gly  
                   85                  90                  95  
 Glu Ala Pro Gly Ala Glu Thr Pro Ser Leu Arg His Arg Gly Gln Ala  
           100                  105                  110  
 Ala Gln Pro Glu Pro Ser Thr Gly Phe Thr Ala Thr Pro Pro Ala Pro  
           115                  120                  125  
 Asp Ser Pro Gln Glu Pro Leu Val Leu Arg Leu Lys Phe Leu Asn Asp  
   130                  135                  140

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Ser Glu Gln Val Ala Arg Ala Trp Pro His Asp Thr Ile Gly Ser Leu  
 145 150 155 160  
 Lys Arg Thr Gln Phe Pro Gly Arg Glu Gln Gln Val Arg Leu Ile Tyr  
 165 170 175  
 Gln Gly Gln Leu Leu Gly Asp Asp Thr Gln Thr Leu Gly Ser Leu His  
 180 185 190  
 Leu Pro Pro Asn Cys Val Leu His Cys His Val Ser Thr Arg Val Gly  
 195 200 205  
 Pro Pro Asn Pro Pro Cys Pro Pro Gly Ser Glu Pro Arg Pro Leu Arg  
 210 215 220  
 Ala Gly Asn Arg Gln Pro Ala Ala Ala Pro Ala Ala Pro Ala Val Ala  
 225 230 235 240  
 Ala Ala Leu Val Leu Pro Asp Pro Val Pro Ala Leu Leu Ser Pro Asp  
 245 250 255  
 Arg His Ser Gly Pro Gly Arg Leu His Pro Ala Pro Gln Ser Pro Gly  
 260 265 270  
 Leu Cys His Val Pro Pro Val Val Pro Pro Arg Ala Leu Gly Ser Val  
 275 280 285  
 Ala Gly Pro Ser Gly Pro Cys Ser Pro Arg Arg Gly Gly Ser Cys Cys  
 290 295 300  
 Leu Pro Arg Pro Ala Ser Pro Ala Cys Leu Phe Pro Leu Pro Trp Ser  
 305 310 315 320  
 Pro Ala Leu Arg Arg Arg Gly Leu Pro Gly Leu Ala Glu Ala Pro Pro  
 325 330 335  
 Cys Asp Arg Arg Gly Ser Gly Pro Pro Pro Gly Ala Ala Asp Pro Gln  
 340 345 350  
 Pro Ala Leu Gly Val Gly Ser Ser Gly Ser Gly Ile Cys Cys Arg Cys  
 355 360 365  
 Leu Gly Pro Gly Gln Ser Arg Ala Ala Pro Gly Ala Arg Leu Ser Val  
 370 375 380  
 Leu Pro Glu Asp Pro Ala Ala Ser Asn Pro  
 385 390

<210> 138  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<400> 138  
 Met Asp Arg Arg Phe Lys Leu Trp Glu Val Phe Gly Glu Lys Cys Glu  
 1 5 10 15  
 Phe Lys Gly Ser Leu Ser Gly Ser Asn Ala Gly Ile Thr Ser Ile Glu  
 20 25 30  
 Phe Asp Ser Ala Gly Ser Tyr Leu Leu Ala Ala Ser Asn Asp Phe Ala  
 35 40 45  
 Ser Arg Ile Trp Thr Val Asp Asp Tyr Arg Leu Arg His Thr Leu Thr  
 50 55 60





Val Asp Asp Tyr Arg Leu Arg His Thr Leu Thr Gly His Ser Gly Lys  
1 5 10 15

Val Leu Ser Ala Lys Phe Leu Leu Asp Asn Ala Arg Ile Val Ser Gly  
20 25 30

Ser His Asp Arg Thr Leu Lys Leu Trp Asp Leu Arg Ser Lys Val Cys  
35 40 45

Ile Lys Thr Val Phe  
50

<210> 141  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 141  
Ala Gly Ser Ser Cys Asn Asp Ile Val Cys Thr Glu Gln Cys Val Met  
1 5 10 15

Ser Gly His Phe Asp Lys Lys Ile Arg Phe Trp Asp Ile Arg Ser Glu  
20 25 30

Ser Ile Val Arg Glu Met Glu Leu Leu Gly Lys Ile Thr Ala Leu Asp  
35 40 45

Leu Asn Pro Glu Arg  
50

<210> 142  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 142  
Thr Glu Leu Leu Ser Cys Ser Arg Asp Asp Leu Leu Lys Val Ile Asp  
1 5 10 15

Leu Arg Thr Asn Ala Ile Lys Gln Thr Phe Ser Ala Pro Gly Phe Lys  
20 25 30

Cys Gly Ser Asp Trp Thr Arg Val Val Phe Ser Pro Asp Gly Ser Tyr  
35 40 45

Val Ala Ala Gly Ser  
50

<210> 143  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 143  
Ala Glu Gly Ser Leu Tyr Ile Trp Ser Val Leu Thr Gly Lys Val Glu  
1 5 10 15

Lys Val Leu Ser Lys Gln His Ser Ser Ser Ile Asn Ala Val Ala Trp  
20 25 30

Ser Pro Ser Gly Ser His Val Val Ser Val Asp Lys Gly Cys Lys Ala  
35 40 45

Val Leu Trp Ala Gln Tyr  
50

<210> 144  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 144  
Ser Gln Leu Ala Ser Gly Lys Leu Ser Lys Tyr Trp Ala Ile  
1 5 10

<210> 145  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 145  
Pro Gly Gly Gly Pro Cys Gly Asn Xaa Trp Xaa Pro Arg Gly Xaa Arg  
1 5 10 15

Glu Lys Lys Phe Val Tyr Ser Pro Asn Leu Arg Leu Ser His Gln Ser  
20 25 30

Leu Lys Val Leu Ala Leu Ala Thr Ala Ala Ala Ser Val Thr Leu Leu  
35 40 45

Thr Trp Ile Leu  
50

<210> 146  
<211> 124  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 146  
Lys Glu Glu Gln Arg Arg Gln Ala Pro Gly Gly Gln Asn Gly Ser Trp  
1 5 10 15

Ile Val Lys Lys Val Trp Phe Ala Cys Leu Ala Val Met Ser Phe Leu  
20 25 30

Gly Phe Ile Leu Asn Leu Gly Ala Arg Leu Ile Val Gln Pro Gln Ala

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45

Arg Lys His Ser Leu Leu Val Lys Met Gln Ala Arg  
115 120

```
<210> 147
<211> 40
<212> PRT
<213> Homo sapiens
```

<400> 147  
Lys Glu Glu Gln Arg Arg Gln Ala Pro Gly Gly Gln Asn Gly Ser Trp  
1 5 10 15

Ile Val Lys Lys Val Trp Phe Ala Cys Leu Ala Val Met Ser Phe Leu  
20 25 30

Gly Phe Ile Leu Asn Leu Gly Ala  
35 40

```
<210> 148
<211> 40
<212> PRT
<213> Homo sapiens
```

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<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 148  
Arg Leu Ile Val Gln Pro Gln Ala Ala Leu Ala Ser Arg Gly Leu Arg  
1 5 10 15

Gly Gln Gly Leu Pro Cys Glu Thr Gln Val Xaa Lys Arg Thr Leu Arg  
20 25 30

Pro Gly Ala Val Gly Trp Leu Val  
35 40

```
<210> 149
<211> 44
<212> PRT
<213> Homo sapiens
```

```
<400> 149
His Lys Gly Arg Arg Ala Leu Ser Ile Ser Arg Lys Ser Ala Leu Val
  1             5             10             15
```

Ser Leu Gly Val Met Tyr Val Gly Pro Gly Lys Arg Pro Gly Val Val  
20 25 30

Arg Lys His Ser Leu Leu Val Lys Met Gln Ala Arg  
 35 40

<210> 150  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 150  
 His Ile Ile Phe Phe Arg Lys Trp Ser Thr Leu Ala Phe Ile Ile Pro  
 1 5 10 15  
 Tyr Ser Ser Val Ser Gly Ile Ile Ser Ile Ala Ser Phe Met Ser Val  
 20 25 30  
 Ala Ser Glu Ile Ala Ser Leu Val Phe Leu Arg Lys Asn Thr Thr Phe  
 35 40 45  
 Trp Ser Arg Asn Ser Ser Gly Arg Gly Val Gln Ser  
 50 55 60

<210> 151  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 151  
 Val Leu Cys Gly Pro Gly Ala Ala Thr Arg Lys Gly Ser Gln Leu Asn  
 1 5 10 15  
 Pro Ala Val Ala Ser Pro Ala Phe Pro His Pro Gly Phe Phe Ser Leu  
 20 25 30  
 Ser Asn Leu Gly Ser Ser Tyr Ser Ser Ser Asn Thr Met Tyr Ser Cys  
 35 40 45  
 Pro Ser Glu Pro Leu His Arg Leu Ser Pro Leu Pro Lys Glu Thr Pro  
 50 55 60  
 Leu Leu Ser Ser Pro Ser Pro Thr Xaa Pro Ser Gln Pro Ala Glu Leu  
 65 70 75 80  
 Trp Phe Ile Phe Cys Ile Arg Val Lys Gly His Leu Pro Cys Gln Ser  
 85 90 95  
 Thr Pro Thr Leu Pro Leu Gln Ser Ser Glu Met Ser Ser Leu  
 100 105 110

<210> 152  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 152  
 Val Leu Cys Gly Pro Gly Ala Ala Thr Arg Lys Gly Ser Gln Leu Asn  
 1 5 10 15

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Ser Asn Leu Gly Ser Ser Tyr  
35

```
<210> 153
<211> 40
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 153  
Ser Ser Ser Asn Thr Met Tyr Ser Cys Pro Ser Glu Pro Leu His Arg  
1 5 10 15

Leu Ser Pro Leu Pro Lys Glu Thr Pro Leu Leu Ser Ser Pro Ser Pro  
20 25 30

Thr Xaa Pro Ser Gln Pro Ala Glu  
35 40

```
<210> 154
<211> 31
<212> PRT
<213> Homo sapiens
```

<400> 154  
Leu Trp Phe Ile Phe Cys Ile Arg Val Lys Gly His Leu Pro Cys Gln  
1 5 10 15

Ser Thr Pro Thr Leu Pro Leu Gln Ser Ser Glu Met Ser Ser Leu  
20 25 30

```
<210> 155
<211> 47
<212> PRT
<213> Homo sapiens
```

<400> 155  
 Thr Ser Ser Pro Gln Arg Arg Leu Pro Ala Gly Pro Arg Pro Pro Thr  
           1                  5                  10                  15

Val Glu Pro Pro Ala Glu Pro Pro Ala Glu Val Pro Pro Ser Gly Thr  
20 25 30

Pro Pro Pro Pro Ser Thr Ser Glu Pro Leu Ser Arg Arg Arg Pro  
35 40 45

```
<210> 156
<211> 432
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (316)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (395)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156  
 Thr Ser Ser Pro Gln Arg Arg Leu Pro Ala Gly Pro Arg Pro Pro Thr  
   1                  5                  10                  15  
 Val Glu Pro Pro Ala Glu Pro Pro Ala Glu Val Pro Pro Ser Gly Thr  
                   20                  25                  30  
 Pro Pro Pro Pro Ser Thr Ser Glu Pro Leu Ser Arg Arg Arg Pro Met  
                   35                  40                  45  
 Trp Gly Phe Arg Leu Leu Arg Ser Pro Pro Leu Leu Leu Leu Pro  
   50                  55                  60  
 Gln Leu Gly Ile Gly Asn Ala Ser Ser Cys Ser Gln Ala Arg Thr Met  
   65                  70                  75                  80  
 Asn Pro Gly Gly Ser Gly Gly Ala Arg Cys Ser Leu Ser Ala Glu Val  
                   85                  90                  95  
 Arg Arg Arg Gln Cys Leu Gln Leu Ser Thr Val Pro Gly Ala Xaa Pro  
                   100                  105                  110  
 Gln Arg Xaa Asn Glu Leu Leu Leu Leu Ala Ala Ala Gly Glu Gly Leu  
                   115                  120                  125  
 Glu Arg Gln Asp Leu Pro Gly Asp Pro Ala Lys Glu Glu Pro Gln Pro  
   130                  135                  140  
 Pro Pro Gln His His Val Leu Tyr Phe Pro Gly Asp Val Gln Asn Tyr  
   145                  150                  155                  160  
 His Glu Ile Met Thr Arg His Pro Glu Asn Tyr Gln Trp Glu Asn Trp  
                   165                  170                  175  
 Ser Leu Glu Asn Val Ala Thr Ile Leu Ala His Arg Phe Pro Asn Ser  
                   180                  185                  190  
 Tyr Ile Trp Val Ile Lys Cys Ser Arg Met His Leu His Xaa Phe Ser  
   195                  200                  205  
 Cys Tyr Asp Asn Phe Val Lys Ser Asn Met Phe Gly Ala Pro Glu His  
   210                  215                  220  
 Asn Thr Asp Phe Gly Ala Phe Lys His Leu Tyr Met Leu Leu Val Asn  
   225                  230                  235                  240

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Ala	Phe	Asn	Leu	Ser 245	Gln	Asn	Ser	Leu	Ser 250	Lys	Lys	Ser	Leu	Asn 255	Val
Trp	Asn	Lys	Asp 260	Ser	Ile	Ala	Ser	Asn 265	Cys	Arg	Ser	Ser	Pro 270	Ser	His
Thr	Thr	Asn 275	Gly	Cys	Gln	Gly	Glu 280	Lys	Val	Arg	Thr	Cys 285	Glu	Lys	Ser
Asp	Glu 290	Ser	Ala	Met	Ser	Phe 295	Tyr	Pro	Pro	Ser	Leu 300	Asn	Asp	Ala	Ser
Phe 305	Thr	Leu	Ile	Gly	Phe 310	Ser	Lys	Gly	Cys	Val 315	Xaa	Leu	Asn	Gln	Leu 320
Leu	Phe	Glu	Leu	Lys 325	Glu	Ala	Lys	Lys	Asp 330	Lys	Asn	Ile	Asp	Ala 335	Phe
Ile	Lys	Ser	Ile 340	Arg	Thr	Met	Tyr	Trp 345	Leu	Asp	Gly	Gly	His 350	Ser	Gly
Gly	Ser	Asn 355	Thr	Trp	Val	Thr	Tyr 360	Pro	Glu	Val	Leu	Lys 365	Glu	Phe	Ala
Gln	Thr 370	Gly	Ile	Ile	Val	His 375	Thr	His	Val	Thr	Pro 380	Tyr	Gln	Val	Arg
Asp 385	Pro	Met	Arg	Ser	Trp 390	Ile	Gly	Lys	Glu	Xaa 395	Lys	Lys	Phe	Val	Gln 400
Ile	Leu	Gly	Asp	Leu 405	Gly	Met	Gln	Val	Thr 410	Ser	Gln	Ile	His	Phe 415	Thr
Lys	Glu	Ala	Pro 420	Ser	Ile	Glu	Asn	His 425	Phe	Arg	Val	His	Glu 430	Val	Phe